

Artec Jet

 Artec 3D

High-precision, mobile
SLAM-based LiDAR system
for any environment



NEW!

The complete mobile mapping system: fast, accurate, safe scene capture



Mapping Speed
1,920,000 pts/s



Survey-Grade Accuracy
Up to 10 mm



Range
0.5–300 meters



Ultra light design
1.57 kg

Wherever the job takes you — Artec Jet is ready

Industries

Underground Mining

AEC

Defense & Security

Public Safety

Civil Infrastructure

Oil & Gas

Heritage Preservation

Forestry

Applications

Digital Twins

Site Planning

Inspection

As-Built Documentation

Volumetric Measurement

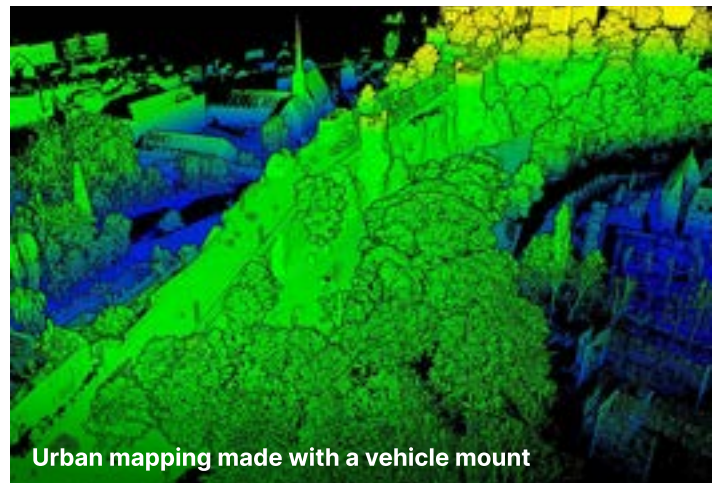
Change Detection

Condition Assessment

Topographic Surveying

Asset Management

One device, any environment, every detail captured



7 deployment modes:
handheld, backpack, drone,
vehicle, robot, pole, cage



Any environment: indoor,
outdoor, underground,
hazardous and hard to reach



Replace an entire fleet of
tools with one scanner



Easy to use, minimal training
required

Scan in tough conditions otherwise beyond human reach



**IP-65
certified**

**GPS-free
positioning**

**Zero light
operation**

**-10 °C to 45 °C
operating range**

**512 GB
onboard storage**

Autonomous drone operation for hard to reach areas

Artec Jet's AI-powered autonomy engine enables drones to reach difficult to access spaces, map GPS-denied environments, and keep your team safe — all without a pilot. Set waypoints and the drone flies autonomously, steering clear of obstacles, while ensuring complete scene capture.

Collision avoidance

Omnidirectional LiDAR detects obstacles as small as 2 mm pieces of wire, in the tightest spaces.

Beyond line of sight

Fly autonomously into areas beyond visual range using advanced path planning and proximity sensors.

Return-to-base failsafe

Artec Jet auto-navigates back to base along a safe, mapped route when on low battery or facing adverse conditions.

Adapts to meet any project scope and complexity



Get it right the first time

Boost productivity and efficiency without scaling risk, cost, or operational friction. Artec Jet and its add-ons ensure

- Real-time point cloud streaming to companion app
- On-site scan preview mode for 100% scene capture
- 360° × 290° FOV — full coverage in a single pass
- Color capture: LiDAR + camera for realistic results
- Optional RTK for GNSS georeferencing above ground
- Local data storage for up to 4 hours of scanning
- Ready to use point clouds and mesh for instant analysis or import to third-party software.

From site to component in one workflow

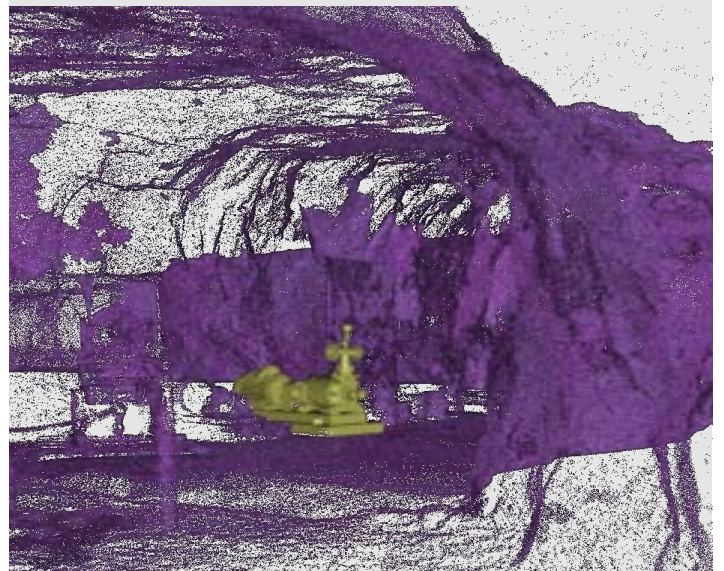
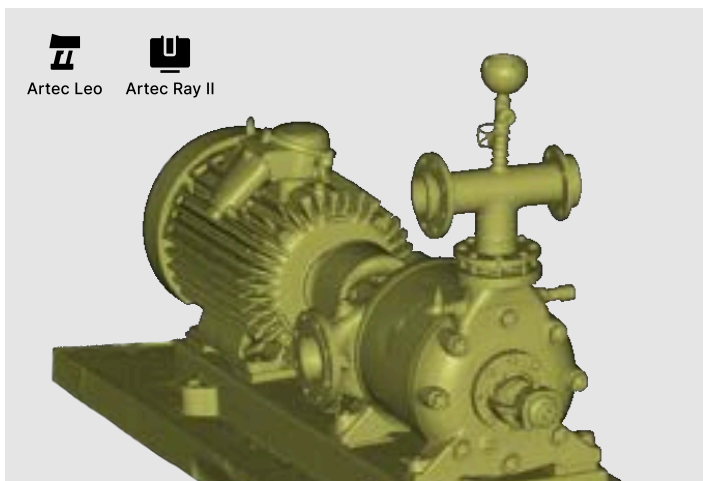
One ecosystem, one workflow for every scale. Artec Jet captures the site. Ray II adds accuracy. Leo details the component. Artec Twins combines them into a single model.



Artec Twins

Large-scale data fusion & engineering software

- Process and visualize dense point clouds
- Use gaussian splatting for high-fidelity, real-time renders
- Merge Artec SLAM, TLS & close-range scans
- Section, measure, and analyze deviation
- Export to LAS, E57, RCP, STL & OBJ



Artec Jet

Specifications



Mapping

Mapping method	SLAM-based LiDAR, $\pm 0.03\%$ drift
LiDAR sensing range	0.5–300 m (1.6–984 ft)
LiDAR accuracy	+/- 10 mm (3/8 in)
Mapping accuracy (general)	+/- 15 mm (19/32 in)
Mapping accuracy (indoor)	+/- 10 mm (3/8 in)
Change detection	+/- 5 mm (7/32 in)
Field of view	360° × 290°
Acquisition (single return)	Up to 640,000 pts/s
Acquisition (triple return)	Up to 1,920,000 pts/s
Max speed (vehicle)	60 km/h (37.3 mph)
Max speed (flight, above)	5 m/s (16.4 ft/s)
Max speed (flight, underground)	2 m/s (6.6 ft/s)
Start/stop while moving	Yes
Laser class	Class 1 (eye safe)

Physical & Environmental

Ingress protection	IP65
Operating temperature	-10 to 45°C (14–113°F)
Weight	1.57 kg (3.46 lb)
Power	14–54 V, 64W
Onboard storage	512 GB (~4 hrs)
Quick release mount	Yes
Deployment modes	7 (Drone/UAV, handheld, backpack, vehicle, pole, cage, ground robot)

Output & File formats

Point cloud formats	.las .laz .ply .E57
Outputs	Full/decimated cloud, trajectory
Point attributes	Intensity, range, time, RGB (opt.)

Autonomy & Safety

Pilot Assist	Non-GPS, position hold, collision av.
Autonomous mode	Waypoint navigation
AL2 waypoint types	2D, 3D, planar, height
AL2 navigation	Guided exploration, path planning
Collision avoidance FOV	360° × 360°
Collision avoidance range	1.2–40 m (3.9–131 ft)
Min. obstacle detection	≥ 2 mm wire
Adjustable safety distance	Yes
Return-to-home	Low battery / dust trigger

Drone platforms

Supported drones	DJI M210v1, M300
Autopilot compatibility	DJI, ArduPilot (Acecore Zoe)

Interfaces

Auxiliary port	Proprietary connector
USB	Yes
Wi-Fi	Internal antenna

Ready to see Artec Jet on your site?

Learn more about Artec Jet
www.artec3d.com

